PEARY'S MIGHTY METEORITE HIT NEW YORK.

MR. GARRETT P. SERVISS, THE EMINENT ASTRONOMICAL WRITER, PICTURES THE DISASTROUS EFFECT OF THIS SEVENTY-TON AERIAL MONSTER IF IT SHOULD HAPPEN TO MAKE NEW YORK ITS TARGET ON A QUIET JUNE AFTERNOON.

BY GARRETT P. SERVISS

York. Last year he endeavored to get this stranded traveller from interplanetary space abound his ship, but its weight was so great that it broke the tackle to pieces, and the attempt had, for the time, to be abandoned. This year he is confident that the meteorite will be captured; and, while he continues his journey toward the Pole, the ship will return with its curious cargo. It has been estimated that this mass of from, which did not originate on the earth, but fell at some unknown period from the sky, weighs about seventy tons, or 140,000 pounds. It is undoubtedly the largest meteorite yet discovered, and, as a scientific gem, it may be worth the \$50,000 which some one has mentioned as its probable value.

Iron meteorites usually contain a small

IEUTENANT PEARY will sall for the structure, and no one knows when they ley North from Boston on June 20. fell upon the earth. This is true of the If success attends him he will not celebrated damond bearing meteorites cturn until he has reached the found a few years ago near the Canon North Pole, an undertaking, which, car-ried out according to his plan of establish-are to be seen at the Yale Museum and ing a series of stations, each more advanced than its predecessor, may require ally, no doubt, constituted a single mass several years.

But he has other aims and objects besides conquest of the Pole. Among these is entirely, of iron. They, therefore, differ sending to the United States of the in composition from the almost pure iron Immense iron meteorite, which he discov-meteors of Greenland. When an attempt ered in his earlier explorations near Cape was made to polish a specimen of the York. Last year he endeavored to get this Canon Diablo meteorites in Philadelphia.

which some one has mentioned as its probable value.

Iron meteorites usually contain a small personage of nickel, but, of course, the value set upon such an object has no relation to the intrinsic worth of the materials. There can hardly be said to be a regular market for meteorites, and yet they do pass occasionally from hand to hand, or from collection to collection, by sale. A bit of meteorite as large as the tip of one's little finger sells for \$10 or \$15 or \$20 according to its excellence and the same of the canyon Diablo, which is a hardly anything more won-derful in the history of science than the manner in which this jewelled meteor, carelessly flung from the sky upon the earth and accidentally picked up in a stony desert, has linked itself with the chain of discovery which to-day has almost reached—perhaps quite reached—one of the greatest secrets of nature's laboratory, the making of diamonds. M. Moissan, the great French chemist, makes diamonds, very much resembling those of the Canyon Diablo, \$15 or \$20, according to its excellence and much resembling those of the Canyon Diablo, interest as a specimen. Mercorites weighing many pounds have moiten iron, under great pressure, subjectweighing about five tons, was offered for black diamonds diffused through its sub-stance.

Et is an interesting fact that the largest known meteoric, mext to Feary's, also similar and the properties and the properties and the position of the sky, whose weight is also similar and the properties and the position of the sky, whose weight is also similar to the form the sky, whose weight is also similar to the properties and the position of Cape York, where Pears made his terms the sky, whose weight is also started about the western also since the started about the western also since the started about the western also started about the same which is not all. The impenses are shall be part of the weight of the position of the western also started about the western als the in New York for \$12,500.

It is an interesting fact that the largest Did Nature do M. Molssan's trick in night are probably smaller than ordinary cause the heat cannot so quickly penetrate never to Poars's also come starm laborators?

SAYS MR. SERVISS: "Imagine an iron missile weighing sometimes been sold at the rate of \$8 or ing the mass to enormous heat in the elec-\$10 per pound. Some twenty years ago trie furnace, and then letting it cool. When a great from meteorite from Greenland, he breaks open the from he finds minute.



polished and the polished surface is etched with acid, characteristic lines and figures make their appearance, and these are never found in any other kind of iron. Inasmuch in few thanks their appearance, and these are never found in any other kind of iron. Inasmuch in few thanks their appearance, and these are never found in any other kind of iron. Inasmuch in few thanks the figures, called from their discovered were found in any other kind of a projectile that as these figures, called from their discovered with a color of the structures as tool in the way of such a meteorite being about twenty-six miles per second, it is readily seen that the time required to reach the appearance for though the atmosphere would any of the innates escape if one of these come a single big satellite travelling in a loud explosion, and the pieces reach the earth room in the one from the sky, and are never visible in form the sky, and are never visible in form the sky, and are never visible for destructive power that such missiles shot of the detection of meteors which have been seen the upper limit of the atmosphere for what the poeting about twenty-six miles per second, would develop in the time required to reach the upper limit of the atmosphere for what the poeting about twenty-six miles per second, would develop in the time required to reach the appearance for though the atmosphere would any of the innates escape of some a single big satellite travelling in a loud explosion, and the pieces reach the carth room the store of two thousand or more. Would appear to the sometimes miles quart the appearance of the unge of the day probably bave a daytime population of two thousand or more. Would appear the atmosphere would any of the innates escape of some a single big satellite traveling in a loud explosion, and the pieces reach the carth room times and the discovered the atmosphere would any of the innates escape of some a single big satellite traveling in a loud explosion, and the pieces reach the carth room times and the discover

polished and the polished surface is etched ones besides those of Arizona yet discov- nature, causes it to fly into fragments with | York! Some of the huge office buildings | In fact, the mere passage of such a



BOMBARDMENT OF THE

ther, would have a fendency to join together, forming a single large mo this way we may imagine that the moons of all the planets which possess satel-

pared to which the efforts of our biggest come a single big satellite travelling in a

These amazing discoveries are based upon the observations which have recently been made by Prof. G. K. Gilbert, of the United States Geological Survey. They tend to show that the moon at one time was a buge ball of mud or other plastic substance; that it did not come straight from the flery face is called the Mare Imbrium. The hills furnace of creation as a complete moon, but that it has absorbed other moons and is an aggregation of a lot of moons, meteors and comets which were at one time floating around loose in the sky.

More amazing than this is the statement that the course of the course of

that the earth at one time had to get along without any moon at all, and that, instead, it was surrounded by a ring like that of Saturn. Saturn, with the enormous ring which surrounds it, is one of the most sensational spectacles in the sky. It is unlike the cormous heat, which meited the greater and the results as the generation of an enormous heat, which meited the greater and the greater and the results are results as the generation of an enormous heat, which meited the greater and the any other planet.

easily distinguished, and for ages it has poured over the surface of the lunar satelpuzzled astronomers. The first theory about lite, reaching for hundreds of miles in all this ring was that it was made of gas. directions.

That idea has now been exploded. The small

to the earth.

Saturn, then, is surrounded by a ring of meteoric particles, so to speak, which move ment is 187 miles long and from 10 to 25 these particles will come together by mu- theory one should study the ground, so to

moons, as we should call them. Later on 4,000 feet in depth.

United States Geological Survey. T has now been discovered that the moon the little moons will make big moons, and has undergone a bombardment com- finally the whole ring of to-day may be-

servers have taken to be craters of extinct

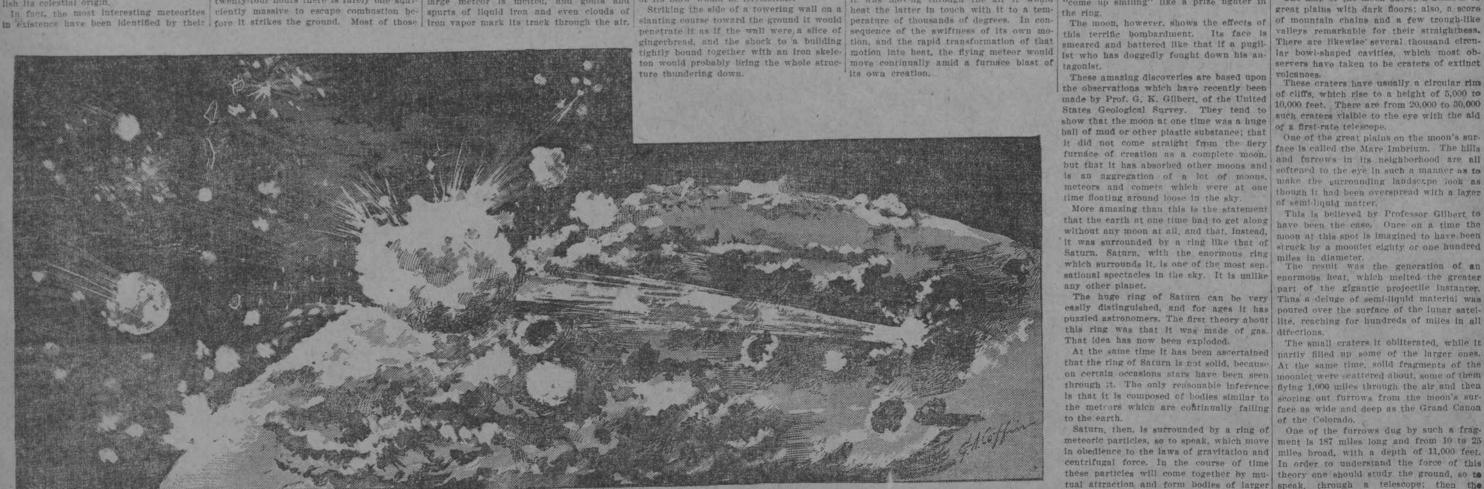
The huge ring of Saturn can be very Thus a deluge of semi-liquid material was

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At the same time it has been ascertained partly filled up some of the larger ones. that the ring of Saturn is not solid, because At the same time, solid fragments of the on certain occasions stars have been seen moonlet were scattered about, some of them through it. The only reasonable inference flying 1,000 miles through the air and then is that it is composed of bodies similar to scoring out furrows from the moon's surthe meteors which are continually falling face as wide and deep as the Grand Canon

in obedience to the laws of gravitation and miles broad, with a depth of 11,000 feet. centrifugal force. In the course of time In order to understand the force of this tual attraction and form bodies of larger speak, through a telescope; then the size.

In turn, these bodies will combine, and eventually Saturn, instead of having a ring, will be surrounded by a flock of little volcanic craters on the earth do not exceed.



Moonlets Hurling Themselves at the Moon-The New Scientific Theory to Explain the Moon's Curious Surface.